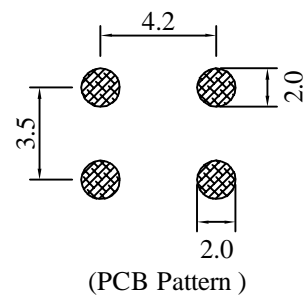
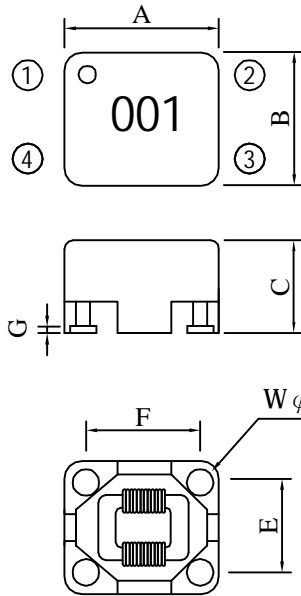


# SPECIFICATION FOR APPROVAL

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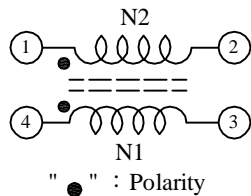
### I . Configuration and dimensions :



Unit : m/m

A	B	C	E	F	G	Wφ
5.80 ±0.3	5.00 ±0.3	3.50 max.	3.50 typ.	4.20 typ.	0.300 min.	1.20±0.2

### II . Schematic diagram :



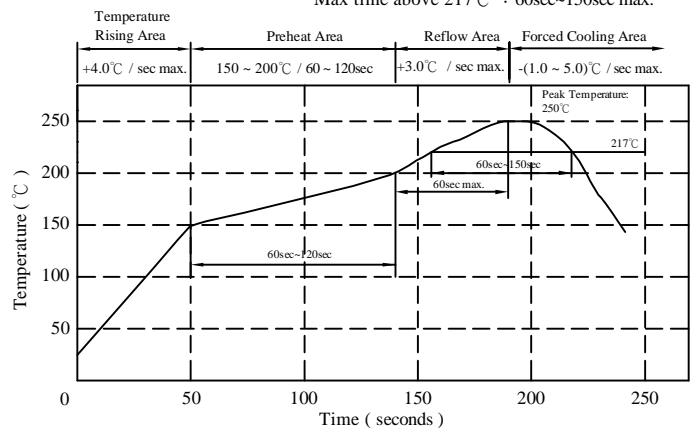
### III . Description :

- a . Ferrite toroidal core construction.
- b . Enamelled copper wire : H class
- c . Product weight : 0.135g ( ref. )
- d . Moisture sensitivity Level 1
- e . Products comply with RoHS' requirements
- f . Halogen free available

### IV . General specification :

- a . Storage temp. : -40°C ----+120°C
- b . Operating temp. : -40°C ----+125°C  
(Temp. rise included)
- c . Resistance to solder heat : 250°C.10 secs.

Peak Temp : 250°C max.  
Max. Peak Temp - 5°C : 30sec max.  
Max time above 217°C : 60sec~150sec max.



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V . Electrical characteristics :

DWG No.	L1 , L2 ( $\mu$ H) 0.1V/1MHz	Impedance ( $\Omega$ ) 100MHz	RDC (m $\Omega$ ) max.	IDC (A) max.	HI-POT Test
SF0603001YL□-□□□	1.00 $\pm$ 25%	300 $\pm$ 25%	25.0	2.30	240 VDC 60 Hz 1 mA 2 sec
SF0603002YL□-□□□	2.80 $\pm$ 25%	800 $\pm$ 25%	100.0	1.00	
SF0603003YL□-□□□	3.40 $\pm$ 25%	1000 $\pm$ 25%	150.0	0.90	
SF0603004YL□-□□□	0.48 $\pm$ 25%	250 $\pm$ 40%	25.0	2.30	
SF0603005YL□-□□□	1.50 $\pm$ 25%	1000 $\pm$ 40%	100.0	1.00	
SF0603006YL□-□□□	2.30 $\pm$ 25%	1500 $\pm$ 40%	150.0	0.75	

- 1). □: Packaging information : □ Code
- 2). "- □□□" : Reference code
- 3). Electrical specifications at 25°C
- 4). Rated current base on Temp. rise 40°C max.

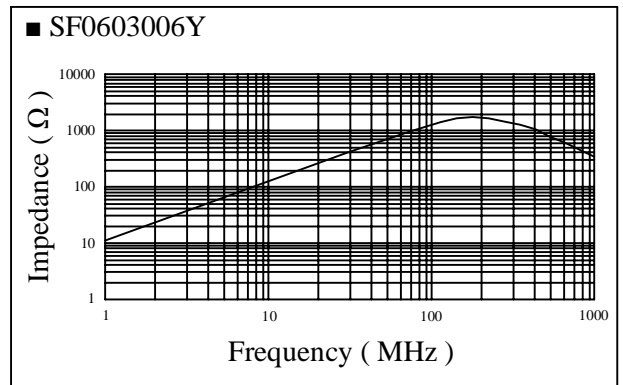
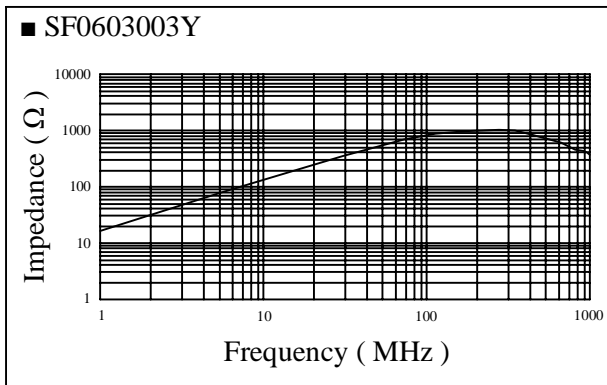
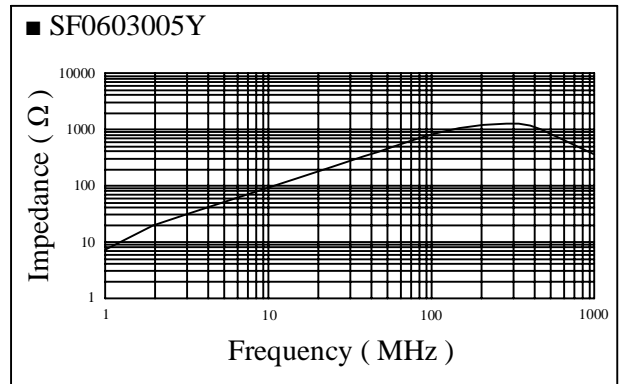
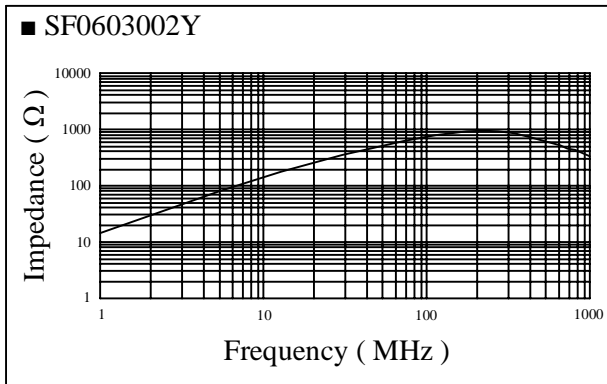
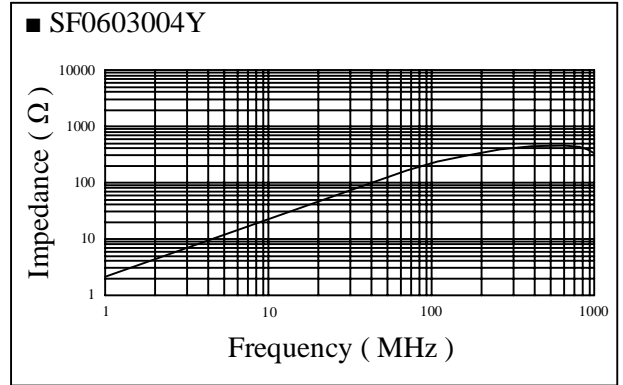
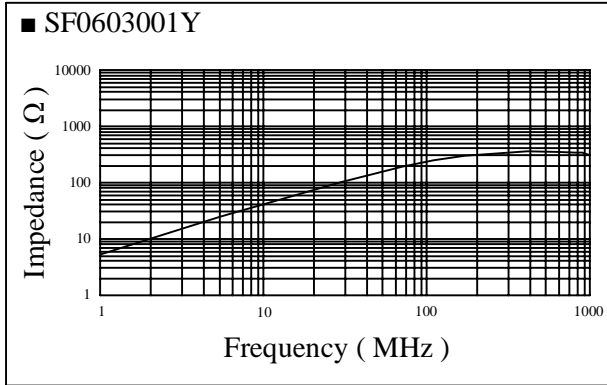
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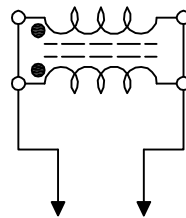
REF. :

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VI . Curve :



Measuring Circuit :



RF Impedance  
Analyzer

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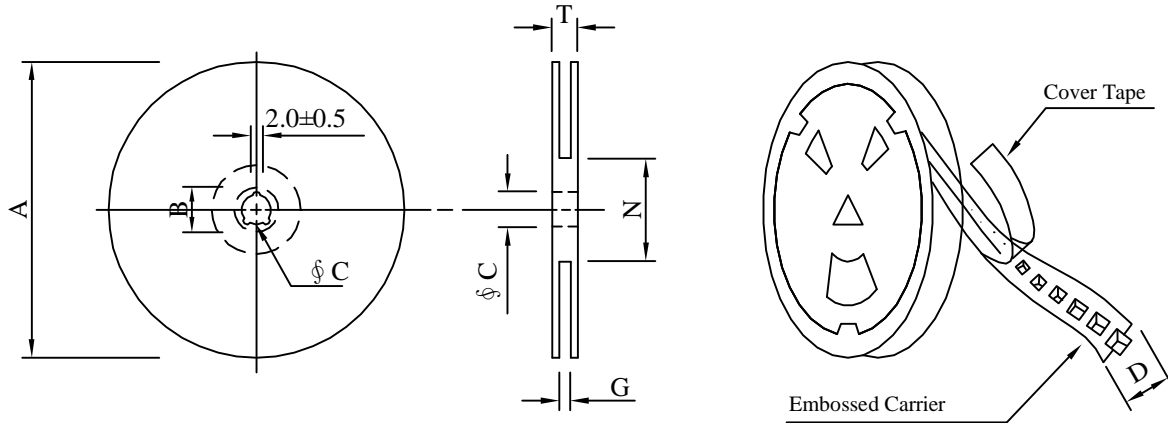
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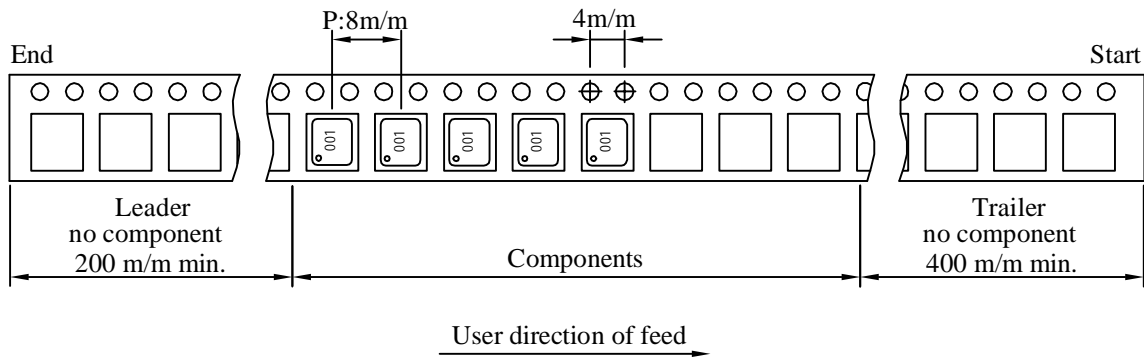
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## VII . Packaging information :

### (1) Configuration



※Carrier tape width : D



### (2) Dimensions

Unit:m/m

Style	A	B	C	D	G	N	T
07 - 12	178	21±0.8	13	12	14 <sup>+0</sup>	50 <sup>-0</sup>	18.4

### (3) Q'TY & G.W. Per package

Code	Inner : Reel			Outer : Carton		
	Q'TY (pcs)	G.W. (gw)	Style	Q'TY (pcs)	G.W. (Kg)	Size (cm)
B	600	200	07 - 12	24,000	8.0	42 x 41 x 24

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## VIII . Reliability test :

Item	Reference documents	Test Condition	Test Specification
1.High Temperature Exposure	MIL-STD-202 Method 108	1.Temperature: 120°C 2.Time:96 hours.	1.No mechanical and electrical damage. 2.Inductance shall not change more than ±50%.
2.Temperature Cycling	JESD22 Method JA-104	1.Temperature: -40°C ~ 120°C 2.Number of cycle:96 cycle 3.Dwell time:30 minutes	1.No mechanical and electrical damage. 2.Inductance shall not change more than ±50%.
3.Biased Humidity Test	MIL-STD-202 Method 103	1.Temperature: 85±5 °C 2.Time:96 Hours 3.Humidity: 85±5% RH.	1.No mechanical and electrical damage. 2.Inductance shall not change more than ±50%.
4.Operational Life	MIL-PRF-27	1.Temperature: 125°C 2.Time:96 hours. 3.Apply rated current.	1.No mechanical and electrical damage. 2.Inductance shall not change more than ±50%.
5.External Visual	MIL-STD-883 Method 2009	Inspect product constructions, marking and workmanship.	1.No pollution on the surface of products. 2.Clear marking. 3.No crack.
6.Physical Dimensions	JESD22 Method JB-100	Verify physical dimensions to the applicable product detail specification.	Per product specification standard
7.Resistance to solvents	MIL-STD-202 Method 215	Immerse into solvent for 3±0.5 minutes & brush 10 times for their cycles.	1.No body change in appearance. 2.No marking blurred. 3.Inductance shall not change more than ±50%.
8.Vibration Test	MIL-STD-202 Method 204	1.Frequency and Amplitued : 10-2000-10 Hz, 1.5 mm. 2.Direction:X, Y, Z 3.Test duration:2 hours for each direction, 6 hours in total.	1.No mechanical and electrical damage. 2.Inductance shall not change more than ±50%.
9.Resistance To Soldering Heat Test	MIL-STD-202 Method 210	1.Highest temperature : 250±5°C 2.Time ( temp. ≥ 217°C ) : 60~150 Second. 3.IR reflow times : 3 times.	1.No mechanical and electrical damage. 2.Inductance shall not change more than ±50%.
10.Rated current	MIL-STD-202 Method 330	Apply rated current for 5 second.	1.No mechanical and electrical damage. 2.Inductance shall not change more than ±50%.
11.Temperature rise	MIL-PRF-27	Apply rated current for 10 minutes.	1.No mechanical and electrical damage. 2.Inductance shall not change more than ±50%.
12.Over load	MIL-PRF-27	Apply twice as rated current for 5 minutes. (It's not application to some special design)	1.No mechanical and electrical damage. 2.Inductance shall not change more than ±50%.
13.Solderability Test	J-STD-002	1.Baking in pre-testing : 155±5°C / 16Hours±30 min. 2.Peak temperature : 240±5°C 3.Time ( temp. ≥ 217°C ) : 60~150 second. 4.IR reflow times : 1 times.	The terminal shall be at least 95% covered with fresh solder.
14.Electrical Characterization	User Spec.	1.Operating temperature : -40°C~125°C 2.Room temperature : 25°C.	1.No mechanical and electrical damage. 2.Inductance shall not change more than ±50%.
15.Withstanding Voltage Test	MIL-STD-202 Method 201	1.DV:500V 2.Time:1minutes	1.During the test no breakdown. 2.The characteristic is normal after test.
16.Drop	JESD22-B111	Packaged & Drop down from 1m.In 1 angle 1ridges & 2 surfaces orientation.	1.No case deformation or change in appearance. 2.Inductance shall not change more than ±50%.
17.Terminal Strength Test	JIS-C-6429	1.Apply push force to samples mounted on PCB. 2.Force of 1.8 kg for 60±1 seconds.	After test, inductors shall be no mechanical damage.

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